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1-PHASE AS-INTERFACE FOR DIN RAIL, SILVERLINE SERIES

SLA3.100
ASI PSU 100-120/220-240V ac I/P 30.5V dc 2.8A O/P



- Output current 2.8, 4 and 8 A
- 115/230 V AC
- IR addressing mode
- Overload protection with electronic fuse (SLA8)
- Earth fault monitoring via relay (SLA4)

PRODUCT DESCRIPTION

The power supply units supply the AS-Interface system with power via the yellow AS-Interface cable. Communications between the various slaves are modulated and are embedded in the power supply's output voltage. A special power supply is therefore required that does not filter out the data information.
The IR addressing mode is selectable via a switch on the front. When the IR mode is activated, communications are disconnected on the yellow AS-Interface cable. The slaves in the loop can then be simply readdressed without physical disconnection from the interface cable. Once programming is completed, the power supply unit is connected for communications mode and data communications is restarted.
Earth fault monitoring: SLA4 has earth fault monitoring between the AS-Interface cable and earth. In the event of short circuiting between +30.5 V dc or minus to earth, the power supply unit will indicate an alarm via a relay contact and a flashing LED. The power supply unit will continue to supply power to the connected slaves when a fault is detected. The fault is acknowledged by pressing a button on the front of the unit. If a separate earthis not installed between the machine and SLA4.100, we recommend earthing the Shield input via the primary side's earth. Do not leave the Shield connection open.
Fuse mode: SLA8 has a fuse mode. In the event of a short circuit, the power supply unit will produce a high short-circuit current for a few seconds (max. 5 s). The unit will then trip its electronic fuse. A tripped fuse is indicated by a flashing LED. To reset the unit, press the reset button at the front. This function entails that unintentional restarts are prevented and the connected units are protected from damage. For more technical information, see the **general information** section at the beginning of the power supply chapter.

TECHNICAL DATA

INPUT DATA

Input voltage ac	100-120, 220-240 V
Input voltage ac min	85 V AC
Input voltage ac max	264 V AC
Inrush current at 120 V ac typical	20 A
Inrush current at 230 V ac typical	38 A
Input voltage range	Auto-select
Power factor at 120 V ac, full load. Typical	0.5
Power factor at 230 V ac, full load. Typical	0.5

OUTPUT DATA

Output voltage	30.55 V DC
Output voltage min	30.55 V DC
Output voltage max	30.55 V DC
Output current	2.8 A

EFFICIENCY / LIFETIME / MTBF

Efficiency at 230 V ac, full load, typical	90.5 %
MTBF (IEC 61709) 230 V ac, max load, 40 ° C	1942000 h

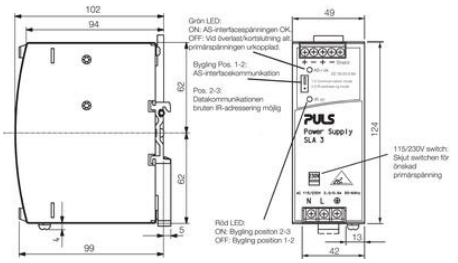
DIMENSIONS

Width	49 mm
Height	124 mm
Depth	102 mm
Weight	0.5 kg

OTHER

Approvals	CB, CE, CSA, NEC Class 2, UL
Hold time at 120 V ac, typical full load	26 ms
Hold time at 230 V ac, typical full load	26 ms
IP class	IP20
Material protection	Aluminium
Supply frequency	50-60 ±6 %
Ripple max	50 mV pp
Series	Silverline
Power consumption 120 V ac	2 A
Power consumption 230 V ac	0.9 A
Power drop from +60 °C to + 70 °C	2 W/°C
Temperature min without derating	-10 °C
Temperature max without derating	60 °C

Type Power Supply	AS-Interface


102
94
49
Grön LED:
ON: AS-interfacespänningen OK
OFF: Vid överlast/kortslutning alt.
primärspänningen urkopplad.
Bygling Pos. 1-2:
AS-interfacekommunikation
Pos. 2-3:
Datakommunikationen
bruten IR-adressering möjlig
PULS
Power Supply
SLA 3
115/230V switch:
Skjut switchen för
önskad
primärspänning
Röd LED:
ON: Bygling position 2-3
OFF: Bygling position 1-2
62
62
124
4
5
99
13
42